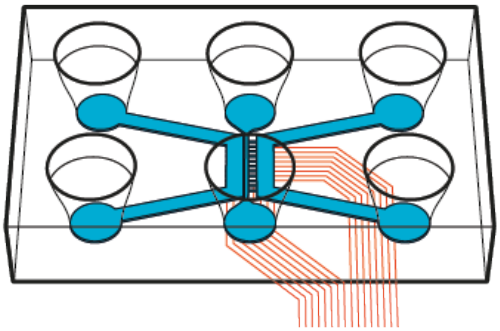
DUALINK™ SHIFT MEA

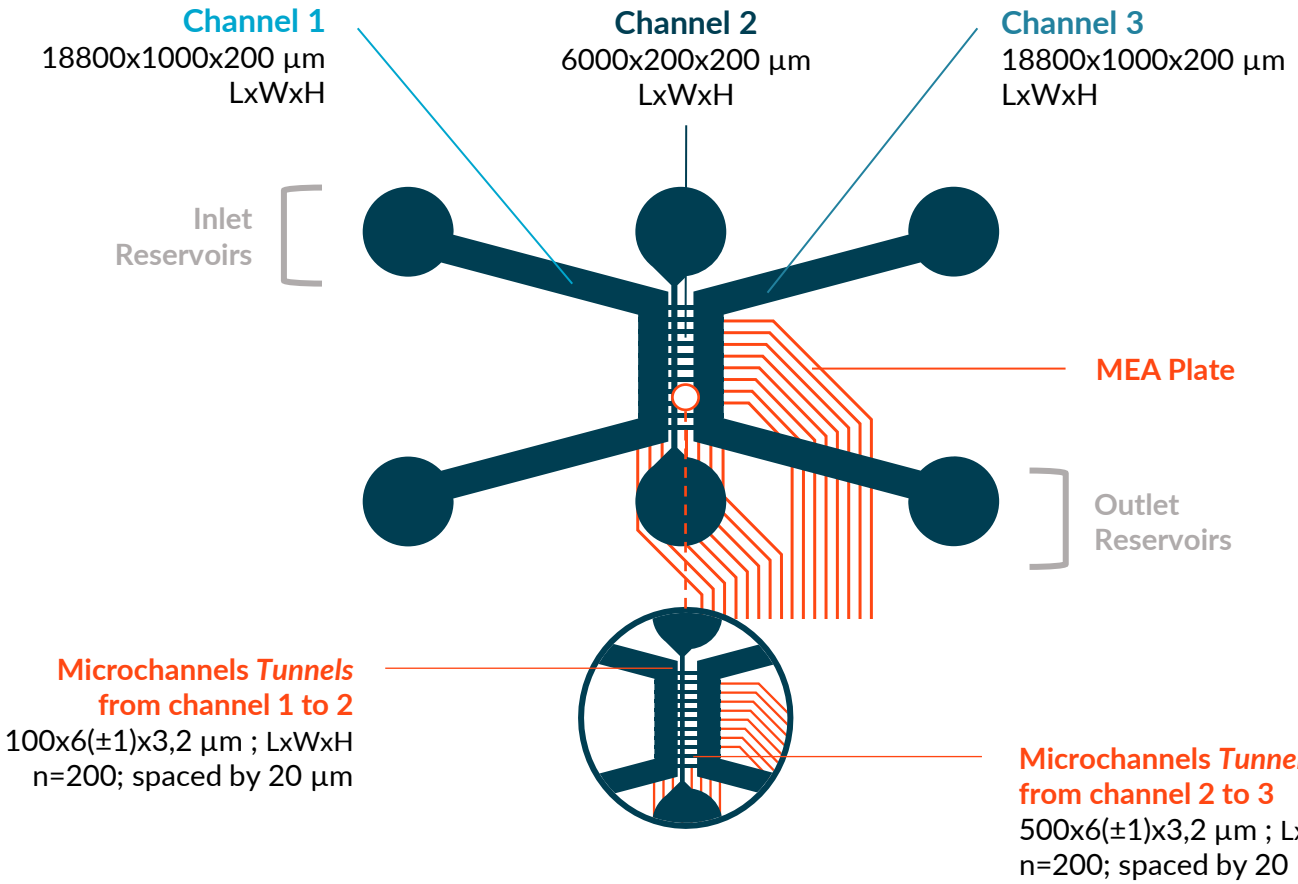


The DuaLink™ Shift MEA is a 3-compartments chip, with asymmetrical shape, connected by microchannels *tunnels* technology that allow discontinious connectivity and synaptic isolation, crowned on a MicroElectrod Array (MEA) Plate.

2 compartments for cell culture and 1 for synaptic creation.

Due to their micron scale, only cell extensions can grow within the microchannels, leaving the cell bodies withing the compartments themselves.

TECHNICAL SPECIFICATIONS



Surface Area

Channel 1
18.8 mm² (32.9 mm² with reservoirs)
Channel 2
1.2 mm² (15.3 mm² with reservoirs)
Channel 3
18.8 mm² (32.9 mm² with reservoirs)

Volumes

Channel 1
3.8 µL (117.7 µL with reservoirs)
Channel 2
0.24 µL (114.1 µL with reservoirs)
Channel 3
3.8 µL (117.7 µL with reservoirs)

Formats

Microfluidic chip
3x2 wells
QuarterBentos™
4 chips
(52,6x34,6x6,2)
NeoBento™
SLAS standard 96-well plate
(127,8x85,5x17,1 mm)

Materials

Microfluidic chip
PolyDiMethylSiloxane biocompatible and low compound absorbing
(layer 170 µm thick + refractive index: 1.4)
NeoBento™
Polystyrene (1.4 mm thick + refractive index: 1.59)

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DUALINK™ SHIFT MEA

APPLICATIONS

Neurological applications

- Synaptic compartimentalization (pre-, post- and synaptic compartments)
- Synaptic transmission and localization
- Axonal transport
- Mitochondrial transport
- Microglial cells migration
- Culture up to 3 different cell populations
- Neuroinflammation
- Huntington's disorders (cortico-striatal)

And more...

READOUTS

- Structural and functional analysis
- Electrophysiology
- Lysis Cell Analysis (LC / MS)
- Live Dead Assays
- Live Staining
- ImmunoFluorescence
- ELISA Active Biomarkers
- Calcium Imaging
- Human cells (apparently healthy, diseased, engineered...)
- Rodent cells

MORE INFORMATION

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